VENTILATION OF MINES. — At the late meeting of the British Association, at Swansea, Mr. P. Struve read a description of a new mine ventilator, wherein he proposes to substitute for the present system of furnaces a ventilator worked by a five-horse power engine, calculated to take out of a mine an unlimited quantity of air. This he does by converting the whole area of the upcast pit into an air channel, which he connects with his ventilator by means of a culvert of a similar size. The ventilator consists of two large air chambers, something like gasometers, which he causes to move up and down in water contained in a tank constructed of masonry; the chambers balance each other, and are surrounded with outside cases so as to form double pumps: the inlet and outlet valves, when open, present the same amount of area for the ingress and egress of the air as the upcast pit, so that the only resistance to be overcome in ventilating the mine is what arises from the friction of the air in the passages of the mine and in the parts of the apparatus, which would be of small amount. He described one now erecting on this principle at the Eagle's Bush Colliery, calculated to pass through that mine 40,000 cubic feet per minute, the cost of which would be about 4,000*l.*

THE ROYAL STABLES AT WINDSOR CASTLE.—Sir, observing that the book you quoted states that the walls of the Riding House which had been affected by the *dry-rot* had recently been covered with "a composition of saw-dust and india rubber," — perhaps you will pardon me for saying, that if "*saw-dust*" had been a component part of the composition the dry rot would again attack the building, from the capillary attraction in the wood saw-dust. The covering which is alluded to is a mechanical combination of prepared cork and caoutchouc, called "kamptulicon," from the Greek words kamptos (flexible) and ulikos (material), both non-absorbents. The kamptolite (or elastic stone) pavement laid down in the Admiralty court-yard is an entirely different composition, worked under a separate patent, and has long been the prey of *lawyers* in a chancery suit, to the serious injury of all concerned, more especially your obedient servant, GEORGE WALTER.

TENDERS

For St. Marylebone Baths, &c.; Mr. Christopher Eales, Architect:—

Smith	£10,146	0	0
Fry and Son	9,946	14	3
Benham and Co.	9,918	0	0
Howard and Nixon	9,647	0	0
Cooper	9,321	0	0
Higgs	9,436	0	0
D'Arcan	9,407	0	0
Piper	9,267	0	0
Burton	9,215	0	0
Holland	9,129	0	0
Patrick	9,070	0	0
Haynes and Co.	8,941	16	10

TO CORRESPONDENTS.

"*Varnish.*" — "The least coloured varnish is that of copal." (Graham.) It is generally prepared by melting the resin, mixing it while hot with a little drying oil, and adding gradually oil of turpentine, in quantity equal to the resin. "When copal is dissolved in any volatile liquid, and spread thin upon wood, metal, paper, &c., so that the volatile menstruum may evaporate, the copal remains perfectly transparent, and forms one of the most beautiful and perfect varnishes that can well be conceived."—(*Edinburgh Encyclopædia.*)

"*Constant Subscriber*" (Ipswich). — Keene's cement would probably answer the purpose.

"*W. H.*"—We cannot undertake to pronounce on the correctness of estimates. In the present case, however, we may say that there seems no reason why the work required should exceed the sum named.

"*Civis.*"—Herr Zwirner is the architect; address, Cologne Cathedral.

"*A Non-Sold, Architecturally-Educated Practitioner.*"—A simple denial of any statement, by any anonymous writer, is, of course, worth nothing. There are many able and honourable men in the class he defends, and there are many who are otherwise.

"*Architect*" (Sunderland), will see the proper course marked out in our leading article.

"*T. R. M.*"—We shall be happy to look at anything which is sent, but do not promise to make use of it.

"*L. B.*"—If a copy be forwarded it shall be looked to.

Received.—"J. P." "J. T." "G. T. D." "X." "P. A." "J. R." "Grim." "P. N." "B. V." "W. J. H." "H. H." "B. B." "S. M." "G. W." "E. S." "S. H." "B. C." "A Brassier." "G. P." "Subscriber" (Liverpool). "J. N." (Bedford), we have not time to comply. "The Geometrical Mosaic of the Middle Ages, with brief Notice of the Art," by M. D. Wyatt, Architect (Day and Son, 17, Gate-street, Lincoln's-Inn Fields); "Rambles about Rich and its Neighbourhood," by James Tunstall, M.D., 2nd edit. (London, Simpkin and Marshall—M. Pocock, Bath); "Condition of the Working Classes," by H. G. Cooper (London, Groombridge and Sons); "Descriptive Atlas of Astronomy," by Rev. Thos. Milner, Part V. (Orr and Co.); "The Man in the Moon," for September; "Dolman's Magazine," &c.

"*Books and Addresses.*"—We have not time to point out books or find addresses.

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H. MORRELL, BLACK LEAD PENCIL MANUFACTURER, No. 149, Fleet-street, London.

These Pencils are prepared in various degrees of hardness and shades.

H H H H for drawing on wood.
H H H for architectural use.
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H for sketching.
H B hard and black for drawing.
M medium.
F F light and shading.
F for general use.
B black for shading.
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B B B ditto ditto.
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Elliptic Stoves, 3d. per inch. Register Stoves, 6d. per inch.
Self-acting Ranges, with Oven and Boiler and Revolving Shelves, 3 ft. 6in.; 3 ft. 6 in., 40s. Chimney Bars, 14s. per cwt.
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Bright ditto, with Black and Bright Bars, 8l. 10s. and upwards.
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3 ft.	3 ft. 6 in.	4 ft.
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Best Sheet Floor Brads 12s. per cwt.
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4s. 3d.	4s.	6s. 6d.	7s. 6d.	9s.	12s. per gross.
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2 ft.	2 ft. 3 in.	2 ft. 6 in.	2 ft. 9 in.	4 ft.
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Do. Elliptic do., at 3d., 4d., and 6d. do.
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They fit up Laundries with Hot Water Apparatus, for heating in a cleanly, expeditious, and safe manner. They also fit up BATHS with elegant arrangements, with every modern scientific improvement. Also Apparatus for the plentiful supply of Hot Water for Baths and general use of Mansions and large establishments.

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WARMING and VENTILATING WORKS, LOWER KING-STREET, MANCHESTER.—Established for the manufacture, by machinery, of various descriptions of approved apparatus for warming and ventilating all kinds of buildings by STEAM, HOT-WATER, and WARM AIR, and for the economical application of heat generally to manufacturing and domestic purposes.—The proprietors having been engaged for many years in an extensive practice of this art in various parts of the kingdom, and reduced it to certain and accurate data, and feeling satisfied, from the frequency of failure in warming and ventilating, that there exists a field for the operations of properly qualified persons, is prepared to undertake works of this kind, on the principle of guaranteeing any required temperature and stated amount of ventilation. Drying-rooms and stoves heated, where required, up to 300 deg. Fahrenheit, and drying operations generally planned and executed on improved principles. Having also bestowed much attention to reducing the expense and cumbrous nature of ventilating arrangements, he submits public notice to the following highly useful, compact, and well-tried inventions:—

Walker's Patent HEAT-BOXES.
Walker's Patent Portable SELF-FEEDING BOILERS, improved SCREW-WARMING and VENTILATING MACHINES.
Walker's Patent HOT WATER STOVES.
Walker's Patent Tubular and other WARM-AIR STOVES.
Walker's Patent Portable Steam-Engines of useful sizes, with cylindrical or tubular boilers.

Competent workmen sent to any part of the country. References to numbers of public institutions, churches, nobility and gentry, architects, manufacturers, &c., throughout England, Ireland, Scotland, and Wales.

FIRE-PROOF DWELLING-HOUSES, &c.—This important desideratum is secured by the use of Dr. FOX'S PATENT FIRE-PROOF FLOORS and CEILINGS, which are applicable to private houses generally, as well as to all descriptions of public buildings, warehouses, manufactories, &c. The attention of the public is solicited to this valuable invention, by the use of which the ravages of fire are effectually prevented, while the expense does not exceed that of the ordinary mode of construction; and the proprietors of the Patent are prepared to furnish every information and assistance requisite for its adoption, and to guarantee its successful application to old as well as to new buildings.—Further particulars may be obtained on application to the Proprietors, Messrs. FOX and BARRETT, Lessnerby Chambers, 46, Leicester-square.

PAPER-HANGINGS, CHEAPEST IN LONDON.—Builders, the Trade, and Country Dealers, may select from a Stock of 20,000 Pieces, of the newest designs, French and English Bedrooms, 4d. per yard; Satins, 5d. per yard; Flocks, 6d. per yard. Patterns for approval sent in town or country; and deals forwarded free of expense. A large discount allowed on taking a quantity. Panel decorations, flowers, or oaks remarkably cheap. Terms, cash. Established twenty years. W. CROSS, T. 35, Leather Arcade, Charing Cross.

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